

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Chemical type	: Substance
Substance name	: Fots oil (petroleum)
Trade name	: Paraffin Soft Neutral Heavy
EC index no	: 649-549-00-3
EC no	: 265-171-8
CAS No.	: 64742-67-2
REACH registration No.	: 01-2119490409-29-0008
Product code	: 893 SDS # PbR0109
Synonyms	: None known.

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Use of the substance/preparation	: Manufacture of substances Intermediate Formulation [mixing] of preparations and/or re-packaging Coatings Agrochemicals Manufacture of rubber products. Fuels Lubricant Functional fluids
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1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Petrobras International Braspetro B.V. – PIB BV
Prins Bernhardplein 200, 1097 – JB Amsterdam
The Netherlands

All communications shall be addressed exclusively to the following address:
Petrobras Europe Ltd
4th Floor, 20 North Audley Street
London W1K 6WL – United Kingdom
Fax number: +44(0) 20 7355 8750
E-mail: reach@petrobras.com.br

1.4. Emergency telephone number

Emergency number	: For Chemical Emergency, Spill, Leak, Fire, Exposure or Accident Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 Outside USA and Canada (collect calls accepted): 1-703-527-3887
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

Adverse physicochemical, human health and environmental effects

High concentration of vapours may induce: headache, dizziness, drowsiness, nausea and vomiting.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

2.3. Other hazards

This substance/mixture does not meet the PBT/vPvB criteria of REACH, annex XIII.

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according to Regulation (EC) No. 453/2010

SECTION 3: Composition/information on ingredients

3.1. Substances

Name	Product identifier	%	Classification according to Directive 67/548/EEC
Foots oil (petroleum) (contains less than 3% DMSO extract)	(CAS No.) 64742-67-2 (EC no) 265-171-8 (EC index no) 649-549-00-3	100	Not classified

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
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Full text of R-, H- and EUH-phrases: see section 16.

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. In case of breathing difficulties administer oxygen. In case of irregular breathing or respiratory arrest provide artificial respiration. If medical advice is needed, have product container or label at hand.
- First-aid measures after skin contact : After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Rinse thoroughly with plenty of water for at least 20 minutes and take medical advice. If medical advice is needed, have product container or label at hand.
- First-aid measures after eye contact : Rinse immediately and plentifully with water, also under the eyelids, for at least 20 minutes. Seek immediate medical advice. If medical advice is needed, have product container or label at hand.
- First-aid measures after ingestion : If swallowed, do not induce vomiting: seek medical advice immediately and show this container label. If swallowed, rinse mouth with water (only if the person is conscious). Drink plenty of water.

4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/injuries after inhalation : High concentration of vapours may induce: headache, nausea, dizziness. Irritant effect on the respiratory tract.
- Symptoms/injuries after skin contact : Slightly irritating to skin. Prolonged/repetitive skin contact may cause skin defatting or dermatitis. Heated product causes burns.
- Symptoms/injuries after eye contact : Slightly irritating to eyes.
- Symptoms/injuries after ingestion : Nausea.

4.3. Indication of any immediate medical attention and special treatment needed

Following contact with the melted product, quickly cool affected skin area with water.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: : carbon dioxide (CO₂), water, dry chemical powder. Water fog.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Apply aqueous extinguishing media carefully to prevent frothing/steam explosion.
- Reactivity : On combustion, forms: Carbon dioxide (CO₂). Sulphur dioxide (SO₂). Nitrogen oxides (NO_x). Carbon monoxide.

5.3. Advice for firefighters

- Firefighting instructions : Cool tanks/drums with water spray/remove them into safety.
- Protective equipment for firefighters : In case of fire: Wear self-contained breathing apparatus. Refer to section 8.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Use water spray/stream to protect personnel and to cool endangered containers. Emergency cooling must be provided for in case of fire. Remove product from area of fire.

6.1.1. For non-emergency personnel

- Protective equipment : Wear suitable protective clothing, gloves and eye/face protection. Refer to section 8.
- Emergency procedures : Remove all sources of ignition. Stop leak if safe to do so.

6.1.2. For emergency responders

- Protective equipment : In case of fire: Wear self-contained breathing apparatus. Wear suitable protective clothing, gloves and eye/face protection. Refer to section 8.
- Emergency procedures : Evacuate unnecessary personnel. Remove all sources of ignition. Stop leak if safe to do so.

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6.2. Environmental precautions

Avoid release to the environment. Contaminated fire-fighting water must be collected separately. Prevent spreading over great surfaces (e.g. by damming or installing oil booms).

6.3. Methods and material for containment and cleaning up

- For containment : Stop leak if safe to do so. Eliminate leaks immediately.
- Methods for cleaning up : Collect in closed containers for disposal. Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). When in liquid state (heated) must be chilled with water to solidify.
- Other information : Relevant water authorities should be notified of any large spillage to water course or drain.

6.4. Reference to other sections

Refer to sections 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Handle in accordance with good industrial hygiene and safety procedures. Use only in well-ventilated areas. Use personal protective equipment as required. The melted product can cause severe burns.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures: : Floors should be impenetrable, resistant to liquids and easy to clean. The floor should be leak tight, jointless and not absorbent.
- Incompatible materials : Oxidizing agents, strong.
- Storage area : Keep away from open flames, hot surfaces and sources of ignition. Keep away from: humid air. Store in a dark area. Only use anti-static equipped (spark-free) tools. Ensure the grounding of containers, apparatus, pumps and suction equipment. Floors should be impenetrable, resistant to liquids and easy to clean. The floor should be leak tight, jointless and not absorbent.
- Special rules on packaging : Portable Tanks/vessels.

7.3. Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Paraffin Soft Neutral Heavy (64742-67-2)		
EU	Notation	National occupational / biological exposure limits: none known
Paraffin Soft Neutral Heavy (64742-67-2)		
DNEL/DMEL (Workers)		
Long-term - systemic effects, inhalation	5.4 mg/m ³ /day	
DNEL/DMEL (General population)		
Long-term - systemic effects, inhalation	1.2 mg/m ³ /day	

8.2. Exposure controls

- Appropriate engineering controls : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Provide adequate ventilation.
- Personal protective equipment : Take off contaminated clothing and wash before reuse. Used working clothes should not be used outside the work area. Do not eat, drink or smoke when using this product. Wear protective gloves and eye/face protection.
- Hand protection : Protective gloves made of PVC.
- Eye protection : Wear eye protection/face protection.
- Respiratory protection : Wear respiratory protection. The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, closed-circuit breathing apparatus must be used!. In case of fire: Wear self-contained breathing apparatus.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state : Solid
- Appearance : clear.
- Colour : light yellow.
- Odour : odourless.
- Odour threshold : No data available
- pH : No data available
- Melting point : No data available

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Solidification point	: No data available
Boiling point	: 321-553.2 °C
Flash point	: ≥ 180 °C ASTM D 92
Relat. evapor. rate comp. to butylacetate	: No data available
Flammability (solid, gas)	: No data available
Explosive limits	: No data available
Vapour pressure	: < 5 mmHg @ 25°C
Relative vapour density at 20 °C	: No data available
Relative density	: 0.82-0.84 g/cm ³ @ 85°C
Solubility	: Soluble in toluene. 14.5g/100g @ 20°C. Water: insoluble
Log Pow	: No data available
Self ignition temperature	: 300 °C (Combustion point/Fire point: 270°C)
Decomposition temperature	: > 400 °C
Viscosity, kinematic	: 3.997 cSt (At 100 °C) viscosity at 40 °C is not applicable due to product melting point> 40 °C
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

On combustion, forms: Carbon dioxide (CO₂). Sulphur dioxide (SO₂). Nitrogen oxides (NO_x). Carbon monoxide.

10.2. Chemical stability

Stable at normal conditions.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

No data available.

10.5. Incompatible materials

Oxidizing agents, strong.

10.6. Hazardous decomposition products

No data available.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Paraffin Soft Neutral Heavy (64742-67-2)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 5000 mg/kg
LC50 inhalation rat (mg/l)	> 5 mg/l/4h
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
The classification as a carcinogen need not apply because the substance contains less than 3 % DMSO extract as measured by IP 346 "Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions — Dimethyl sulphoxide extraction refractive index method", Institute of Petroleum, London	
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Paraffin Soft Neutral Heavy (64742-67-2)	
NOAEL (oral,rat,90 days)	< 125 mg/kg bodyweight/day

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Paraffin Soft Neutral Heavy (64742-67-2)	
NOAEL (dermal, rat/rabbit, 90 days)	1000 mg/kg bodyweight/day
NOAEL (inhalation, rat, gas, 28 days)	220 ppmV/6h/day (mg/m ³)
NOAEL (inhalation, rat, vapour, 90 days)	50-150 mg/l/6h/day (mg/m ³)

Aspiration hazard : Not classified

Potential Adverse human health effects and symptoms : High concentration of vapours may induce: headache, nausea, dizziness. The melted product can cause severe burns.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

Paraffin Soft Neutral Heavy (64742-67-2)	
LC50 fishes	> 100 mg/l 96 hours
EC50 Daphnia	> 10000 mg/l 96 hours
NOEC (acute)	> 100 mg/l 96 hours (Fish)
NOEC (chronic)	> 10000 mg/l 96 hours (Daphnia)

12.2. Persistence and degradability

Paraffin Soft Neutral Heavy (64742-67-2)	
Persistence and degradability	No data available.

12.3. Bioaccumulative potential

Paraffin Soft Neutral Heavy (64742-67-2)	
Bioaccumulative potential	No data available.

12.4. Mobility in soil

Paraffin Soft Neutral Heavy (64742-67-2)	
Ecology - soil	No data available.

12.5. Results of PBT and vPvB assessment

Paraffin Soft Neutral Heavy (64742-67-2)	
This substance/mixture does not meet the PBT/vPvB criteria of REACH, annex XIII.	

12.6. Other adverse effects

Other adverse effects : No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Consult the local waste disposal expert about waste disposal. Dispose of this material and its container to hazardous or special waste collection point. Disposal must be done according to official regulations.

SECTION 14: Transport information

Not a dangerous good in sense of transport regulations.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

No ingredients included in the REACH Candidate list

Other regulations, restrictions and prohibition regulations : Compliance with following regulations: Regulation (EC) 1272/2008 as amended. Regulation (EC) 1907/2006 as amended. Directive 67/548/EEC as amended. Directive 1999/45/EC as amended.

15.1.2. National regulations

Regional legislation : No data has been reported. In case of need contact our Product Safety office.

15.2. Chemical safety assessment

CSA has not been established. The substance is not classified as dangerous.

SECTION 16: Other information

Sources of Key data : PETROBRAS. MSDS.

Abbreviations and acronyms : ASTM - American Society for Testing and Materials . CLP - Classification, Labelling and Packaging. CSR - Chemical Safety Report. EC - European Community. EEC - European Economic Community. GHS - Globally Harmonised System. REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals. SDS - Safety Data Sheet.

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SDS PETROBRAS USES

The information presented in this Safety Data Sheet is based on current knowledge and is believed to be complete and accurate. It describes the product for the purposes of health, safety and environment requirements only and shall, therefore, be used only as a guide. The data refers to a specific product and may not be valid for combined uses with other products. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. Petrobras shall not be responsible for any damage or injury resulting from abnormal use or from any failure to adhere to recommended practices.